

B/
Cont'd

which maintains the ability to enhance lysine production when recombinantly expressed in *C. glutamicum*.

21/
22.

The isolated polynucleotide of claim 21, wherein said amino acid sequence is at least 80% identical to that of SEQ ID NO:2.

22/
23.

The isolated polynucleotide of claim 21, wherein said amino acid sequence is at least 90% identical to that of SEQ ID NO:2.

23/
24.

The isolated polynucleotide of claim 21, wherein said amino acid sequence is at least 95% identical to that of SEQ ID NO:2.

24/
25.

An isolated polynucleotide consisting essentially of the nucleotide sequence of SEQ ID NO:1.

25/
26.

A vector comprising a sequence identical to that of the isolated polynucleotide of any one of claims 19-25.

26/
27.

A bacterium transformed with the vector of claim 26.

27/
28.

An isolated polynucleotide according to claim 19, wherein said polynucleotide codes for component H of the phosphotransferase system.

28/
29.

An isolated polynucleotide, comprising at least 15 consecutive nucleotides selected from SEQ ID NO:2, wherein said polynucleotide functions as a primer in a polymerase chain reaction to prepare or amplify a polynucleotide encoding a polypeptide having the enzymatic activity of component H of the phosphotransferase system.

29/
30.

An isolated polynucleotide comprising at least 15 consecutive nucleotides selected from SEQ ID NO:2 or the complement thereof, having the function of a probe in

Pl'd
Ant'd

hybridization reaction to isolate, detect or determine a polynucleotide encoding a polypeptide having the enzymatic activity of component H of the phosphotransferase system.

30

31.

An isolated polynucleotide hybridizing to the complement of SEQ ID NO:1 stringency, wherein said polynucleotide is isolated from the species *Corynebacterium glutamicum* and wherein said polynucleotide encodes a protein having the enzymatic activity of component H of the phosphotransferase system. --
